

## EAST Search History

| Ref # | Hits  | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|-------|--|---|------------------|---------|------------------|
| L3    | 5     | ((third or root )same(party or entity or trusted or authority))((second or two)same(check\$5 or verif\$5 or match\$5)same(parameter or signature or function))(parameter)(tate or weil)(bilinear)(association) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND              | ON      | 2007/09/16 16:18 |
| L4    | 5     | ((third or root or trusted )same(party or entity or authority))((second or two)same(check\$5 or verif\$5 or match\$5)same(parameter or signature or function))(parameter)(tate or weil)(bilinear)(association) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND              | ON      | 2007/09/16 15:29 |
| L5    | 8     | ((third or root or trusted )same(party or entity or authority))((second or two)same(check\$5 or verif\$5 or match\$5)same(parameter or signature or function))(tate or weil)(bilinear)(association)            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND              | ON      | 2007/09/16 15:30 |
| L6    | 14    | ((third or root or trusted )same(party or entity or authority))(tate or weil)(bilinear)(association)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND              | ON      | 2007/09/16 16:51 |
| L7    | 1     | "20030179885"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND              | ON      | 2007/09/16 16:07 |
| L8    | 23    | (tate or weil)(bilinear)(association)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND              | ON      | 2007/09/16 16:57 |
| L9    | 1     | "5124117".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND              | ON      | 2007/09/16 16:44 |
| L10   | 0     | L9 (tate or weil or bilinear)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND              | ON      | 2007/09/16 18:04 |
| L11   | 34695 | (association)same (prov\$5)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND              | ON      | 2007/09/16 16:51 |

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|     |       |  |   |     |    |                  |
|-----|-------|--|---|-----|----|------------------|
| L12 | 1110  | (association)same (prov\$5)(pairing)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 16:51 |
| L13 | 629   | (association)same<br>(prov\$5)(pairing)(third)(second)(parameter)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 16:52 |
| L14 | 110   | (association)same<br>(prov\$5)(pairing)(third)(second)(parameter)(verification)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 16:52 |
| L15 | 40    | (association)same<br>(prov\$5)(pairing)(third)(second)(parameter)same(verification or security)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 16:55 |
| L16 | 18851 | (second or verification or security)near(parameter)same(second or third)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 16:56 |
| L17 | 14254 | L16 (element or product)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 16:57 |
| L20 | 3094  | L17((tate)or(weil)or(bilinear)or(association)or (pairing))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 17:07 |
| L21 | 1727  | L20 (prov\$5 or check\$5)same(second or third or trusted)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 16:58 |
| L22 | 1509  | L20 (prov\$5 or check\$5)same(second or third or trusted)same(associat\$5 or first or party or entity)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 16:59 |
| L23 | 478   | L20 (prov\$5 or check\$5)same(second or third or trusted)same(associat\$5 or first or party or entity)(check\$5 or match\$5)(signature or certificate)(verificatioin or parameter) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 17:13 |
| L24 | 478   | L20 (prov\$5 or check\$5)same(second or third or trusted)same(associat\$5 or first or party or entity)(check\$5 or match\$5)(signature or certificate)(verification or parameter)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 17:00 |

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|     |      |   |                                    |     |    |                  |
|-----|------|---|------------------------------------|-----|----|------------------|
| L25 | 14   | L20 (prov\$5 or check\$5)same(second or third or trusted)same(associat\$5 or first or party or entity)(check\$5 or match\$5)(signature or certificate)(verification near parameter) | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | AND | ON | 2007/09/16 17:02 |
| L26 | 40   | ((second)near(check\$5 or test or comparison))(verification near parameter)   | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | AND | ON | 2007/09/16 17:04 |
| L27 | 6    | ((second)near(check\$5 or test or comparison))(verification near parameter)(association or third or trusted)same(party or entity or authority)                                      | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | AND | ON | 2007/09/16 17:23 |
| L28 | 94   | ((second or subsequent\$5 or associat\$5)same(check\$5 or test or comparison))(verification near parameter)(association or third or trusted)same(part\$3 or entity or authority)    | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | AND | ON | 2007/09/16 17:14 |
| L29 | 67   | L28((tate)or(weil)or(bilinear)or(association)or (pairing))  | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | AND | ON | 2007/09/16 17:10 |
| L30 | 11   | L28((tate)or(weil)or(bilinear)(association)or (pairing))  | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | AND | ON | 2007/09/16 17:13 |
| L31 | 48   | L28((tate)or(weil)or(bilinear)or(association)or (pairing))(business or partner)   | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | AND | ON | 2007/09/16 17:11 |
| L32 | 2175 | ((association)same(between)same(two or second or prov\$5)same(parties or entities or trusted))  | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | AND | ON | 2007/09/16 17:12 |
| L33 | 2275 | ((association)same(between or among)same(two or second or prov\$5)same(parties or entities or trusted))   | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | AND | ON | 2007/09/16 17:13 |
| L34 | 736  | L33((tate)or(weil)or(bilinear)or(association)or (pairing)).clm.   | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | AND | ON | 2007/09/16 17:24 |

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|     |        |  |                                    |     |    |                  |
|-----|--------|--|------------------------------------|-----|----|------------------|
| L35 | 111    | L34(prov\$5 or check\$5)same(second or third or trusted)same(associat\$5 or first or party or entity)(check\$5 or match\$5)(signature or certificate)(verification or parameter) | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | AND | ON | 2007/09/16 17:13 |
| L36 | 130    | L34(prov\$5 or check\$5)same(second or third or trusted)same(associat\$5 or first or party or entity)(check\$5 or match\$5)(signature or certificate)(verification or parameter) | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | AND | ON | 2007/09/16 17:13 |
| L37 | 41     | L36 ((check\$5 or test\$5 or compar\$5)same(second or verification)same(prov\$5 or associat\$5))(function or product or element)same(first or second)                            | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | AND | ON | 2007/09/16 17:15 |
| L38 | 474    | ((second)near(check\$5 or test or comparison))(verification )(parameter)(association or third or trusted)same(party or entity or authority)                                      | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | AND | ON | 2007/09/16 17:24 |
| L39 | 749    | ((second)near(check\$5 or test or comparison))(verification )(parameter)(association or third or trusted)same(part\$5 or entit\$5 or authorit\$5)                                | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | AND | ON | 2007/09/16 17:37 |
| L40 | 59     | L39((tate)or(weil)or(bilinear)or(association)or (pairing)).clm.  | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | AND | ON | 2007/09/16 18:04 |
| L41 | 13     | L40((second)near(check\$5 or test or comparison)).clm.   | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | AND | ON | 2007/09/16 17:27 |
| L42 | 235107 | (first)same(second)same(third)same(part\$5 or entit\$5 or trusted or authorit\$5 )   | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | AND | ON | 2007/09/16 17:28 |
| L43 | 239770 | (first)same(second)same(third)same(part\$5 or entit\$5 or trusted or authorit\$5 or prover or verif\$5)  | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | AND | ON | 2007/09/16 17:42 |
| L44 | 26     | L43((tate)or(weil))(bilinear)((association)or (pairing))(second).clm.  | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | AND | ON | 2007/09/16 17:29 |

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|     |      |  |   |     |    |                  |
|-----|------|--|---|-----|----|------------------|
| L45 | 3    | L43((tate)or(weil))(bilinear)((association)or (pairing))(second or association)near (check\$5 or verif\$5 or compar\$5 or test).clm.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 17:30 |
| L46 | 26   | L44 or L45   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 17:36 |
| L47 | 151  | (bi\$linear near mapping)(second)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 17:37 |
| L48 | 26   | L47(first)same(second)same(third)same(part\$5 or entit\$5 or trusted or authorit\$5 or prover or verif\$5)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 17:42 |
| L49 | 6    | L47((second)near(check\$5 or test or comparison or condition or signature ))(verification)(parameter)(association or third or trusted)same(part\$5 or entit\$5 or authorit\$5) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 17:45 |
| L50 | 185  | ((first)(second)(third)).clm.<br>(verification or security or cryptographic) near (parameter or value).clm.(associat\$5 or prov\$5).clm.                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 17:53 |
| L51 | 120  | L50(element or product or identif\$5).clm.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 17:47 |
| L52 | 128  | L50(element or product or identif\$5 or secret or shared).clm.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 17:45 |
| L53 | 7    | L52((second)near(check\$5 or test or comparison or condition or signature comput\$5))(association or third or trusted)same(part\$5 or entit\$5 or authorit\$5)                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 17:46 |
| L54 | 4286 | ((second)near(check\$5 or test or comparison or condition or signature comput\$5)).clm.<br>(association or third or trusted)same(part\$5 or entit\$5 or authorit\$5)           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 17:52 |
| L55 | 8    | L50 L54  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 17:47 |

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|     |      |   |   |     |    |                  |
|-----|------|---|---|-----|----|------------------|
| L56 | 2856 | ((second)near(check\$5 or test or comparison or condition or signature comput\$5)).clm.<br>(association or third or trusted)same(part\$5 or entit\$5 or authorit\$5)same(two or second)                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 17:57 |
| L57 | 0    | L56((first)same(second)(samethird))<br>(verification or security or cryptographic) near (parameter or value).clm.(associat\$5 or prov\$5).clm.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 17:53 |
| L58 | 5    | L56((first)same(second)same(third))<br>(verification or security or cryptographic) near (parameter or value).clm.(associat\$5 or prov\$5).clm.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 17:58 |
| L59 | 223  | ((carrying or performing)same(second)near(chec<br>k\$5 or test or comparison or condition or signature comput\$5)).<br>clm.(association or third or trusted)same(part\$5 or entit\$5 or authorit\$5)same(two or second) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 17:58 |
| L60 | 445  | ((carrying or performing)same(second)near(chec<br>k\$5 or test or comparison or condition or signature or comput\$5)).clm.(association or third or trusted)same(part\$5 or entit\$5 or authorit\$5)same(two or second)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 17:58 |
| L61 | 3    | L60((first)same(second)same(third))<br>(verification or security or cryptographic) near (parameter or value).clm.(associat\$5 or prov\$5).clm.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 17:59 |
| L62 | 4    | L60((first)same(second)same(third))<br>(verification or security or cryptographic) near (parameter or value).clm.(associat\$5 or prov\$5)(secret)(shared)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 17:59 |
| L63 | 4    | L60((first)(second)(third))(verificati<br>on or security or cryptographic) near (parameter or value).clm.<br>(associat\$5 or prov\$5)(secret)(shared)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 17:59 |
| L64 | 4    | L60(verification or security or cryptographic) near (parameter or value).clm.(associat\$5 or prov\$5)(secret)(shared)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 17:59 |

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|     |   |  |   |     |    |                  |
|-----|---|--|---|-----|----|------------------|
| L65 | 1 | (US-7249102-\$.did.  | USPAT                                       | AND | ON | 2007/09/16 18:04 |
| L66 | 0 | L65 (tate or weil or bilinear)                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 18:04 |
| L67 | 0 | L65((tate)or(weil)or(bilinear)or(ass<br>ociation)or (pairing)) - | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | AND | ON | 2007/09/16 18:04 |